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Tem	ABEM	DECLA	RATION	AND POWER OF	Attorney Docket Nun	nber 51876P455
	A	TTORNEY		TENT APPLICATION	First Named Inventor	Sung-Ik PARK
			(37 CF	R 1.63)		COMPLETE IF KNOWN
	1				Application Number	10/750,029
		Declaration Submitted		Declaration Submitted after Initial	Filing Date	December 30, 2003
		with Initial Filing	OR	Filing (surcharge (37 CFR 1.16(e))	Art Unit	
		i iiiig		required)	Evaminar Nama	

#### As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

	EVISION BROADCASTING SERVICE
the specification of which  is attached hereto.	(Title of the Invention)
OR	
	e): s United States Application Number
and was amended on	(if applicable)
hereby state that I have reviewe	ed and understand the contents of the above-identified

specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

BEST AVAILABLE COPY

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

<u>Pr</u>	ior Foreign Application(s):							
	Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?			
	10-2003-0032007	Korea	05/20/2003		☐ Yes 🗷 No			
					☐ Yes ☐ No			
					☐ Yes ☐ No			
					☐ Yes ☐ No			
	į				☐ Yes ☐ No			
I he pat app her lif ti and act with	Appointment of Practitioners:  I hereby appoint the practitioners associated with Customer Number: 08791 as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.  If this patent application is assigned, then the undersigned hereby authorizes the patent attorneys and patent agents named herein to accept and follow instructions from the assignee(s) as to any action to be taken in the United States Patent and Trademark Office regarding this application without direct communication between the patent attorneys and patent agents and the undersigned. In the event of a change in the persons from whom instructions may be taken, at least one patent attorney or patent agent named herein will be so notified by the undersigned.							
	Correspondence: Direct all correspondence to Customer Number <u>08791</u> ,							
sta sta are fals	I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.							
NA	ME OF SOLE OR FIRS	T INVENTOR: A pet	tition has been fi	iled for this unde	ersigned inventor			
Ful	l Name:		Sung-Ik PARK					
	(First, Middle [if any], Family Name (or Surname), and Suffix [if any])							
Inv	entor's Signature	Circle full	Date	<u> </u>	12006.			
Res	sidence Daejon, Repu	blic of Korea	Citizen	ship Republic of	Korea			
	Daojon, Ropa	(City, State, Country)			(Country)			
Mai		inseong-Dong, Yuseong-G	iu					
	Daejon,	305-804 Republic of Korea	a					

NAME OF SECON	ND INVENTOR:	en filed for this	undersigned inventor			
Full Name: Yong-Tae LEE						
	(First, Middle [if any], Family Name (or Surname), and Suffix [if any])					
Inventor's Signatu		Date	3/3/2006			
voo. o.ga.	5	_				
Residence Dae	jon, Republic of Korea	Citizenship	Republic of Korea			
	(City, State, Country)	_	(Country)			
Mailing Address	#203-1307 Mokryun Apt., Dunsan 1-Dong	g, Seo-Gu				
•	Daejon, 302-771 Republic of Korea	· · · · · · · · · · · · · · · · · · ·				
	<u></u>					
NAME OF THIRD	•		undersigned inventor			
Full Name:		Won KIM	19.60 66 7			
	(First, Middle [if any], Family No		and Suffix [if any])			
Inventor's Signatu	ıre	_ Date				
		·Oitimanahin	Parable of Varia			
Residence Dae	jon, Republic of Korea	- Citizenship	(Country)			
A A Maria and A A A A A A A A A A A A A A A A A A A	(City, State, Country)	Cu	(Country)			
Mailing Address	#109-1804 Narae Apt., Jeonmin-Dong, Yu					
	Daejon, 305-729 Republic of Korea	<u> </u>				
	to the state of the control of the c	· 현,	2"			
•		i di Sultana di				
NAME OF FOURT	HINVENTOR: DA petition has bee		undersigned inventor			
			-			
Full Name:		In LEE				
	(First, Middle [if any], Family Na	me (or Surname),	and Suffix [if any])			
Inventor's Signatu	re Gov In Cer	Date	4/3/2006			
· ·			7			
Residence Daej	jon, Republic of Korea	Citizenship	Republic of Korea			
	(City, State, Country)	_	(Country)			
Mailing Address	#401-701 Sunbi Maeul Apt., Songchon-Do	ng, Daedeok-Gu				
	Daejon, 306-040 Republic of Korea					
NAME OF FIFTH I	NVENTOR:	n filed for this i	undersigned inventor			
	_ ,		_			
Full Name:	Ho-M	in EUM				
	(First, Middle [if any], Family Name (or Surname), and Suffix [if any])					
Inventor's Signatu	re Um h Com	Date	4/27/20b			
	<u> </u>					
Residence Daej	on, Republic of Korea	Citizenship	Republic of Korea			
<u> </u>	(City, State, Country)	•	(Country)			
Mailing Address	145-13, Sinseong-Dong, Yuseong-gu					
Daejon, 305-345 Republic of Korea						

NAME OF SIXTH	INVENTOR:	☐ A petition has	been filed for this	undersigned inventor		
Full Name:			Jae-Hyun SEO			
	·	Middle [if any], Famil	•			
Inventor's Signat	ure	1129	Date	5/2/2006		
Did	· 5 11: CT		Oitingashin	D 1 1: CTZ		
Residence Da	ejon, Republic of K		Citizenship			
Mailing Address		tate, Country)	~	(Country)		
Mailing Address		eong-Dong, Yuseong-	gu	· · · · · · · · · · · · · · · · · · ·		
	Daejon, 303-343	Republic of Korea		· <del>=</del> · · · · · · · · · · · · · · · · · · ·		
NAME OF SEVEN				undersigned inventor		
	·	Middle [if any], Family	v Name (or Surname), d	and Suffix [if any])		
Inventor's Signati	ure		Date	· · · · · · · · · · · · · · · · · · ·		
Residence			Citizenship	<del></del>	, · ·	
	(City , St	tate, Country)		(Country)		
Mailing Address	<i>*</i>	· · · ·		upani upani A Sina	-	
	· · · · · · · · · · · · · · · · · · ·	· 	······································		37	
NAME OF EIGHT				ndersigned inventor	Marie (1)	
	(First,	Middle [if any], Family	Name (or Surname), a	nd Suffix [if any])	-	
Inventor's Signatu	ıre	<del></del>	Date			
<b>.</b>			0			
Residence	(G:) S.	ate, Country)	Citizenship _	(Country)		
Mailing Address		ate, Country)		(Country)		
NAME OF NINTH	INVENTOR:	☐ A petition has b	peen filed for this u	ndersigned inventor	<u> </u>	
=						
Full Name:	/F:	Middle [if any], Family	Nama (an Sama)	of Coeffice fif ?		
Inventor's Signatu	•	miaaie [ij any], Family	Date	na sujjix [ij any])		
Residence			Citizenship			
Tresidence	(City St	ite, Country)	Omzensiip _	(Country)		
Mailing Address	(0.17)	,		(000,000,5)		
maining / tudicos						

Attorney's Docket No.: 51876P455

## **ASSIGNMENT**

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

# Sung-Ik PARK; Yong-Tae LEE; Seung-Won KIM; Soo-In LEE; Ho-Min EUM; Jae-Hyun SEO

hereby sell, assign, and transfer to:

#### **Electronics and Telecommunications Research Institute**

a Corporation, having a principal place of business at 161, Gajeong-dong, Yuseong-gu, Daejon, 305-350 Republic of Korea ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and improvements that are disclosed in the application for the United States patent filed on December 30, 2003, and assigned Application No. 10/750,029 and is entitled:

# ON-CHANNEL REPEATING APPARATUS AND METHOD FOR TERRESTRIAL DIGITAL TELEVISION BROADCASTING SERVICE

and in and to said application and all provisional, design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions and improvements; and in and to all rights of priority from the filing of said United States applications;

agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional, design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and



covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:		
4/27/2006	Sung Ele Park.	
Date	Name: Sung-Ik PARK	
5/3/2006		
Date	Name Yong-Tae LEE	
Date	Name: Seung-Won KIM	
1/3/206	So In Ce	
Date	Name: Soo-In LEE	
4/27/2006	Novam Em	
Date	Name: Ho-Min EUM	
t/2/2006	m	
Date 2008	Name: Jae-Hyun SEO	
· 4.		
Date	Name:	
; .		
Date	Name:	
Date	Name:	
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Date	Name:	
2000		
Date	Name:	

Name:

Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 12400 Wilshire Boulevard, 7th Floor Los Angeles, CA 90025 Telephone: (310) 207-3800

Date

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1	FRMBEMAEN OF	ΑП

### DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION (37 CFR 1.63)

Declaration
Submitted
with Initial
Filina

OR

Declaration
Submitted after Initial
Filing (surcharge
(37 CFR 1.16(e))
required)

<u></u>					
Attorney Docket Number 51876P455					
First Named Inventor Sung-Ik PARK					
	COMPLETE IF KNOWN				
Application Number	10/750,029				
Filing Date	December 30, 2003				
Art Unit					
- Examiner Name					

### As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TELEVISION BROADCASTING SERVICE				
the specification of which	tle of the Invention)			
☐ is attached hereto.				
OR				
	ites Application Number10/750,029 national Application Number			
and was amended on	(if applicable)			

ON-CHANNEL REPEATING APPARATUS AND METHOD FOR TERRESTRIAL DIGITAL

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

-Prior Foreign Applicat	ian/a).
Prior- Poreion: Abblicat	IOHEST.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
10-2003-0032007	Korea	05/20/2003		☐ Yes 🛭 No
				☐ Yes ☐ No
				☐ Yes ☐ No
				☐ Yes ☐ No
				☐ Yes ☐ No

#### **Appointment of Practitioners:**

I hereby appoint the practitioners associated with Customer Number: **08791** as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.

If this patent application is assigned, then the undersigned hereby authorizes the patent attorneys and patent agents named herein to accept and follow instructions from the assignee(s) as to any action to be taken in the United States Patent and Trademark Office regarding this application without direct communication between the patent attorneys and patent agents and the undersigned. In the event of a change in the persons from whom instructions may be taken, at least one patent attorney or patent agent named herein will be so notified by the undersigned.

#### Correspondence:

Direct all correspondence to Customer Number 08791,

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE	OR FIRST INVENTOR:   A petition h	as been filed fo	or this undersigned inventor
Full Name:	Sung-Ik PARK		
	(First, Middle [if any], Family Na	me (or Surname),	and Suffix [if any])
Inventor's Signatu	ıre ·	Date	
Residence Daejon, Republic of Korea		Citizenship	Republic of Korea
	(City, State, Country)	_	(Country)
Mailing Address	146-14 Sinseong-Dong, Yuseong-Gu		
	Daejon, 305-804 Republic of Korea		

Full Name:    Separative   Signature   Separative   Separ	NAME OF SECO	ND INVENTOR: A petition has be	en filed for this undersigned inventor		
Residence   Desjon, Republic of Korea   Citizenship   Republic of Korea   (City - State, Country)   (Country)   (Country)	Full Name:	Yong-Tac LEE			
Residence Daejon, Republic of Korea (City, State, Country)  Mailing Address #203-1307 Mokryun Apt., Dunsan 1-Dong, Sco-Gu Daejon, 302-771 Republic of Korea  NAME OF THIRD INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Seung, Wos KIM  (First, Middle [if arry], Family Name (or Surmans), and Suffix [if arry])  Inventor's Signature Daejon, Republic of Korea (City, State, Country)  Mailing Address #109-1804 Name Apt., Joonmin-Dong, Yusoong-Gu Daejon, 305-729 Republic of Korea  (City, State, Country)  Inventor's Signature Apt., Joonmin-Dong, Yusoong-Gu Daejon, 305-729 Republic of Korea  (City, State, Country)  Inventor's Signature Separative Date  Residence Daejon, Republic of Korea (City, State, Country)  Mailing Address #401-701 Sumbi Macul Apt., Songchon-Dong, Daedook-Gu Daejon, 306-040 Republic of Korea  (City, State, Country)  Mailing Address HAU1-701 Sumbi Macul Apt., Songchon-Dong, Daedook-Gu Daejon, 306-040 Republic of Korea  (City, State, Country)  Mailing Address Hove Apt. Republic of Korea (City, State, Country)  (First, Middle [if arry], Family Name (or Surmans), and Suffix [if arry])  Inventor's Signature Date  Residence Daejon, Republic of Korea (City, State, Country)  (First, Middle [if arry], Family Name (or Surmans), and Suffix [if arry])  Inventor's Signature Date  Residence Daejon, Republic of Korea (City, State, Country)  Mailing Address 145-13, Sinsong-Dong, Pong, Yusoong-gu					
Mailing Address   #203-1307 Mokryun Apt., Dunsan 1-Dpng, Seo-Gu   Daejon, 302-771 Republic of Korea	Inventor's Signat	ure	Dute		
Mailing Address   #203-1307 Mokryun Apt., Dunsan 1-Dpng, Seo-Gu   Daejon, 302-771 Republic of Korea	Residence Da	ojon, Republic of Korea	Cilizenship Republic of Korea		
NAME OF THIRD INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Scung-Won KIM  (First, Middle [if any), Family Name (or Surname), and Suffix [if any)]  Inventor's Signature Deejon, Republic of Korea Citizenship Republic of Korea  (City, State, Country)  Mailing Address #109-1804 Nerse Apt., Jeonamin-Dong, Yusoong-Gu  Daejon, 305-729 Republic of Korea  (City, State, Country)  Inventor's Signature Date  Residence Daejon, Republic of Korea Citizenship Republic of Korea  (City, State, Country)  Mailing Address #401-701 Sunbi Macul Apt., Songchou-Dong, Daedook-Gu  Daejon, 306-040 Republic of Korea  (City, Middle [if any], Family Name (or Surname), and Suffix [if any])  Mailing Address #401-701 Sunbi Macul Apt., Songchou-Dong, Daedook-Gu  Daejon, 306-040 Republic of Korea  (City, State, Country)  Mailing Address Daejon, Republic of Korea Chizenship Republic of Korea  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature Daejon, Republic of Korea  (City, State, Country)  Residence Daejon, Republic of Korea Chizenship Republic of Korea  (City, State, Country)  (Country)  Mailing Address 145-13, Sinsoong-Dong, Yuseong-gu	****	(City, State, Country)	(Country)		
NAME OF THIRD INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Scang-Wos KIM  (First. Middle [if any), Family Name (or Surmans), and Suffix [if any)]  Inventor's Signature Daejon, Republic of Kores City. Mats. Country)  Mailing Address #109-1804 Narse Apt., Jeonamin-Dong, Yuseong-Gu  Daejon, 305-729 Republic of Kores  NAME OF FOURTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Sop-Is LEE  (First. Middle [if any), Family Name (or Surmans), and Suffix [if any])  Inventor's Signature Date  Residence Daejon, Republic of Kores City, State, Country)  Mailing Address #401-701 Sunbi Macul Apt., Songchon-Dong, Daedeok-Gu  Daejon, 306-040 Republic of Kores  (First. Middle [if any], Family Name (or Surmans), and Suffix [if any])  Inventor's Signature Daejon, Republic of Kores  (City, State, Country)  Mailing Address Signature City, Middle [if any], Family Name (or Surmans), and Suffix [if any])  Inventor's Signature City, Middle [if any], Family Name (or Surmans), and Suffix [if any])  Inventor's Signature City, Middle [if any], Family Name (or Surmans), and Suffix [if any])  Inventor's Signature City, Middle [if any], Family Name (or Surmans), and Suffix [if any])  Inventor's Signature City, Middle [if any], Family Name (or Surmans), and Suffix [if any])  Inventor's Signature City, Middle [if any], Family Name (or Surmans), and Suffix [if any])  Inventor's Signature City, Middle [if any], Family Name (or Surmans), and Suffix [if any])  Inventor's Signature City, Middle [if any], Family Name (or Surmans), and Suffix [if any])  Inventor's Signature City, Middle [if any], Family Name (or Surmans), and Suffix [if any])  Inventor's Signature City, Middle [if any], Family Name (or Surmans), and Suffix [if any])  Inventor's Signature City, Middle [if any], Family Name (or Surmans), and Suffix [if any])	Mailing Address		ng, Sco-Gu		
Full Name:    Scung-Woo KIM   First, Middle [if arry], Family Name (or Stername), and Stiffts [if arry])   Date   May 02 2006		Daejon, 302-771 Republic of Korea			
Inventor's Signature					
Inventor's Signature  Declon, Republic of Korea  (City , State, Country)  Mailing Address  #109-1804 Nerse Apt., Jeonmin-Dong, Yuseong-Gru  Decjon, 305-729 Republic of Korea  (First, Middle [if any], Family Name (or Surmane), and Suffix [if any])  Inventor's Signature  Residence  Decjon, Republic of Korea  (City , State, Country)  Mailing Address  #401-701 Sunbi Macul Apt., Songchon-Dong, Dacdcok-Gu  Decjon, 306-040 Republic of Korea  (Country)  #401-701 Sunbi Macul Apt., Songchon-Dong, Dacdcok-Gu  Decjon, 306-040 Republic of Korea  (City , State, Country)  Mailing Address  NAME OF FIFTH INVENTOR:  A petition has been filed for this undersigned inventor  Full Name:  Ho-Mita EUM  (First, Middle [if any], Family Name (or Surmane), and Suffix [if any])  Inventor's Signature  Date  Residence  Decjon, Republic of Korea  (City , State, Country)  Chizenship Republic of Korea  (City , State, Country)  Republic of Korea  (City , State, Country)  Republic of Korea  (City , State, Country)  Mailing Address  145-13, Sinsoong-Dong, Yuseong-gu	ruii Naine.	(First, Middle [if any], Family N	lame (or Surname), and Suffix (if anyl)		
Residence Deejon, Republic of Korea (City - State, Country)  Mailing Address #109-1804 Nerse Apt., Jeonmin-Dong, Yuseong-Gu  Dacjon, 305-729 Republic of Korea  NAME OF FOURTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Soo-In LEE  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature Date  Residence Dacjon, Republic of Korea (City - State, Country)  Mailing Address #401-701 Sumbi Macul Apt., Songchon-Dong, Dacdook-Gu  Dacjon, 306-040 Republic of Korea  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature Dactor  Residence Dacjon, Republic of Korea (City - State, Country)  Mailing Address Ho-Min EUM  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature Date  Residence Dacjon, Republic of Korea (City - State, Country)  Mailing Address 145-13, Sinseong-Dong, Yuseong-gu	Inventor's Signati				
Mailing Address #109-1804 Narse Apt., Jeonmin-Dong, Yuseong-Gu  Dacjon, 305-729 Republic of Kores  NAME OF FOURTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Sep-la LEE  (First, Middle [if any], Family Name (or Sizmame), and Suffix [if any])  Inventor's Signature Dute  Residence Dacjon, Republic of Korea  (City, State, Country)  Mailing Address #401-701 Sunbi Macul Apt., Songchon-Dong, Dacdook-Gu  Dacjon, 306-040 Republic of Korea  NAME OF FIFTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Ho-Mita EUM  (First, Middle [if any], Family Name (or Sizmame), and Suffix [if any])  Inventor's Signature Date  Residence Dacjon, Republic of Korea  (City, State, Country)  Mailing Address 145-13, Sinsoong-Dong, Yuseong-gu					
Mailing Address #109-1804 Name Apt., Jeonmin-Dong, Yuseong-Gu  Deejon, 305-729 Republic of Kores  NAME OF FOURTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Son-Is LEE  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature Date  Residence Daejon, Republic of Kores Country)  Mailing Address #401-701 Sunbi Maoul Apt., Songchon-Dong, Daedcok-Gu  Daejon, 306-040 Republic of Kores  NAME OF FIFTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Ho-Mits EUM  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature Daite  Residence Daejon, Republic of Kores (City, State, Country)  Mailing Address 145-13, Sinsoong-Dong, Yuseong-gu	Residence Dec	ojon, Republic of Korea			
NAME OF FOURTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Sep-In LEE  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature Date  Residence Daejon, Republic of Korea Citizenship Republic of Korea  (City, State, Country)  Mailing Address #401-701 Sunbi Macul Apt., Songebon-Dong, Daedook-Gu  Daejon, 306-040 Republic of Korea  NAME OF FIFTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Ho-Min EUM  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature Date  Residence Decjon, Republic of Korea  (City, State, Country)  Mailing Address 145-13, Sinseong-Dong, Yuseong-gu	Molling Address		,		
NAME OF FOURTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name: SecIa LEE  (First, Middle [tf any], Family Name (or Surmame), and Suffix [tf any])  Inventor's Signature Date  Residence Dacjon, Republic of Korea Cltizenship Republic of Korea  (Ctty, State, Country)  Mailing Address #401-701 Sunbi Macul Apt., Songchon-Dong, Dacdcok-Gu  Dacjon, 306-040 Republic of Korea  NAME OF FIFTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Ho-Min EUM  (First, Middle [tf any], Family Name (or Surmame), and Suffix [tf any])  Inventor's Signature Date  Residence Dacjon, Republic of Korea Cltizenship Republic of Korea  (Ctty, State, Country)  Mailing Address 145-13, Sinscong-Dong, Yuseong-gu	wigning Vociess		useong-Cri		
Inventor's Signature   Date					
Residence Dacjon, Republic of Korea (City , State, Country) (Country)  Mailing Address #401-701 Sunbi Macul Apt., Songchon-Dong, Dacdcok-Gu  Dacjon, 306-040 Republic of Korea  NAME OF FIFTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Ho-Min EUM  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature Date  Residence Dacjon, Republic of Korea (City , State, Country)  Mailing Address 145-13, Sinsoong-Dong, Yuseong-gu		(First, Middle [tf any], Family N	ame (or Surname), and Suffix (if any))		
(City, State, Country) (Country)  Mailing Address #401-701 Sunbi Macul Apt., Songchon-Dong, Daedook-Gu  Daejon, 306-040 Republic of Korea  NAME OF FIFTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Ho-Mis EUM  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature Date  Residence Dacjon, Republic of Korea (City, State, Country)  Mailing Address 145-13, Sinscong-Dong, Yuseong-gu	Inventor's Signati				
(City, State, Country) (Country)  Mailing Address #401-701 Sunbi Macul Apt., Songchon-Dong, Daedook-Gu  Daejon, 306-040 Republic of Korea  NAME OF FIFTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name: Ho-Mis EUM  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature Date  Residence Dacjon, Republic of Korea (City, State, Country)  Mailing Address 145-13, Sinscong-Dong, Yuseong-gu	Ocaldana Bu	to Desire of Warran	Chicaratia Banklia et Vanna		
Mailing Address  #401-701 Sunbi Macul Apt., Songchon-Dong, Dacdook-Gu  Dacjon, 306-040 Republic of Korea  NAME OF FIFTH INVENTOR:  A petition has been filed for this undersigned inventor  Ho-Mis EUM  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature  Dacjon, Republic of Korea  (City, State, Country)  Mailing Address  145-13, Sinscong-Dong, Yuscong-gu	Residence Dad				
NAME OF FIFTH INVENTOR:  A petition has been filed for this undersigned inventor  Ho-Min EUM  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature  Date  Residence  Decjon, Republic of Korea  (City, State, Country)  Mailing Address  145-13, Sinscong-Dong, Yuscong-gu	Mailing Address				
Full Name:    Ho-Min EUM					
Residence Dacjon, Republic of Korea Chizenship Republic of Korea (City , State, Country) (Country)  Melling Address 145-13, Sinscong-Dong, Yuseong-gu					
Residence Dacjon, Republic of Korea CHizenship Republic of Korea (City , State, Country) (Country)  Mailing Address 145-13, Sinscong-Dong, Yuscong-gu		(First, Middle [(f any], Family N	ame (or Surname), and Sufflx [(f any])		
(City, State, Country) (Country)  Mailing Address 145-13, Sinscong-Dong, Yuscong-gu	Inventor's Signati	ıre	Date		
Mailing Address 145-13, Sinscong-Dong, Yuscong-gu	Residence Dac				
	Mailing Address		(Country)		
	Manual Variances	Dacjon, 305-345 Republic of Korea			

Docket No. 51876P455

NAME OF SIXTH INVENTOR:	n filed for this undersigned inventor			
	Jae-Hyun SEO			
(First, Middle [if any], Family Na	me (or Surname), and Suffix [if any])			
Inventor's Signature	Date			
Residence Daejon, Republic of Korea	Citizenship Republic of Korea			
(City, State, Country)	(Country)			
Mailing Address #102-1102, Sinseong-Dong, Yuseong-gu Daejon, 305-345 Republic of Korea				
Daejon, 303-343 Republic of Rolea				
NAME OF SEVENTH INVENTOR:   A petition has been filed for this undersigned inventor  Full Name:				
(First, Middle [if any], Family Nar	ne (or Surname), and Suffix [if any])			
Inventor's Signature	Date			
Residence	Citizenship			
(City, State, Country)	(Country)			
Mailing Address				
NAME OF EIGHTH INVENTOR: A petition has been filed for this undersigned inventor  Full Name:  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Inventor's Signature  Date				
Residence	Citizenship			
(City , State, Country)  Mailing Address	(Country)			
NAME OF NINTH INVENTOR:				
	e (or Surname), and Suffix [if any])			
Inventor's Signature	Date			
Residence	Citizenship			
(City , State, Country)  Mailing Address	(Country)			

Attorney's Docket No.: 51876P455

### **ASSIGNMENT**

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

Sung-Ik PARK; Yong-Tae LEE; Seung-Won KIM; Soo-In LEE; Ho-Min EUM; Jae-Hyun SEO

hereby sell, assign, and transfer to:

#### Electronics and Telecommunications Research Institute

a Corporation, having a principal place of business at 161, Gajeong-dong, Yuseong-gu, Daejon, 305-350 Republic of Korea ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and improvements that are disclosed in the application for the United States patent filed on December 30, 2003, and assigned Application No. 10/750,029 and is entitled:

# ON-CHANNEL REPEATING APPARATUS AND METHOD FOR TERRESTRIAL DIGITAL TELEVISION BROADCASTING SERVICE

and in and to said application and all provisional, design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions and improvements; and in and to all rights of priority from the filing of said United States applications;

agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional, design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

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covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Bolow:

Date	Name: Sung-Ik PARK
Detc May 02,2006	Name: Yong-Tae LEE
Date /	Name: Scung-Won KIM
Date	Name: Soo-In LEE
Date	Name: Ho-Min EUM
Date	Name: Jae-Hyun SEO
Date	Name:
Deate	Name:
Date	Name;

Assignment Document Return Address:
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 12400 Wilshire Boulevard, 7th Floor Los Angeles, CA 90025 Telephone: (310) 207-3800

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